

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number  
**WO 2005/014040 A2**

(51) International Patent Classification<sup>7</sup>: **A61K 39/385**,  
A61P 31/18

(21) International Application Number:  
PCT/GB2004/003386

(22) International Filing Date: 5 August 2004 (05.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0318247.4 5 August 2003 (05.08.2003) GB

(71) Applicant (for all designated States except US): **THE ROYAL VETERINARY COLLEGE** [GB/GB]; University of London, Royal College Street, London NW1 0TU (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **WERLING, Dirk** [DE/GB]; The Royal Veterinary College, Hawkshead Lane, North Mymms, Hatfield, Herts AL9 7TA (GB).

(74) Agent: **MILES, John**; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

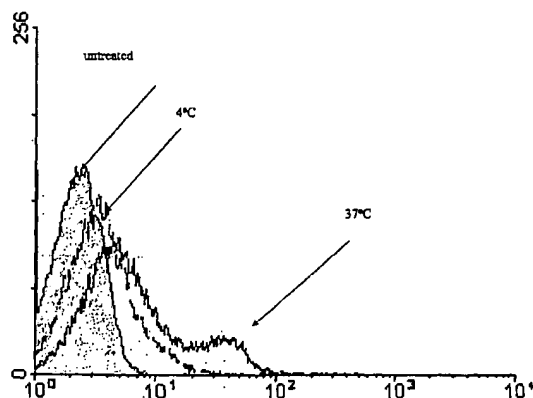
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: ANTIGEN DELIVERY SYSTEM



Binding of HIV gp120-FITC to bovine DC. Cells were either left untreated or incubated at 4°C or 37°C with gp120-FITC for 60min and analysed by flow cytometry.

(57) Abstract: A compound for vaccination of an animal comprising (i) a moiety which selectively binds to a dendritic cell in the animal but which does not naturally occur in the animal and (ii) an antigen. Typically, the moiety which selectively binds as said binds to DC-SIGN. The moiety maybe HIV-1 gp 120. The compound of the invention may be used to vaccinate animals and, following vaccination, they may be distinguished from naturally infected animals.



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*